PCT/GB00/02238

Copy for the Elected Office (EO/US) PATENT COOPERATION TREATY

	From th	e INTERNATIONAL BU			
PCT	To:		CEN		
NOTIFICATION OF THE RECORDING OF A CHANGE	BROWN, Michael, Stanley Alpha & Omega Chine Croft East Hill Ottery St. Mary Devon EX11 1PJ				
(PCT Rule 92bis.1 and Administrative Instructions, Section 422)					
Date of mailing (day/month/year) 17 January 2002 (17.01.02)	ROYAUME-UNI				
Applicant's or agent's file reference		IMPORTANT NOTI	FICATION		
International application No. PCT/GB00/02238		nal filing date (day/month/yeune 2000 (08.06.00)	ear)		
The following indications appeared on record concerning: X the applicant X the inventor	the agen	t the commo	on representative		
Name and Address LEONARD, Christopher, Jeremy 71 Shorton Valley Road Paignton Devon TQ3 1RE		State of Nationality GB Telephone No.	State of Residence GB		
United Kingdom		Facsimile No. Teleprinter No.			
2. The International Bureau hereby notifies the applicant that the	ne following	change has been recorded	concerning:		
X the person X the name X the add	ſ	the nationality	the residence		
Name and Address BONDCO 897 LIMITED		State of Nationality GB	State of Residence GB		
Town Quay House 7 Town Quay Southampton		Telephone No.			
Hampshire SO14 2PT United Kingdom		Facsimile No.			
		Teleprinter No.			
3. Further observations, if necessary: The applicant/inventor appearing in Box 1 has a appearing in Box 2. Box 1: applicant/inventor fo designated States except US.	ssigned a r US only	II his rights to the app . Box 2: applicant for a	licant ill		
4. A copy of this notification has been sent to:					
X the receiving Office the International Searching Authority		the designated Offices X the elected Offices cor			
the International Preliminary Examining Authority		other:			
The International Bureau of WIPO	Authorized	l officer			
34, chemin des Colombettes 1211 Geneva 20, Switzerland		S. Buttay			

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

PA NT COOPERATION TREAT.

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT

2011 South Clark Place Room CP2/5C24

Arlington, VA 22202

ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

15 February 2001 (15.02.01)

International application No. PCT/GB00/02238

International filing date (day/month/year)

08 June 2000 (08.06.00)

Applicant's or agent's file reference

Priority date (day/month/year) 09 June 1999 (09.06.99)

Applicant

LEONARD, Christopher, Jeremy

ł	
1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	03 January 2001 (03.01.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Olivia TEFY

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

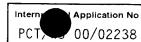


INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 00/02238	08/06/2000	09/06/1999
Applicant LEONARD, CHRISTOPHER JEF	REMY	
according to Article 18. A copy is being	peen prepared by this International Searching Aut g transmitted to the International Bureau.	hority and is transmitted to the applicant
	sts of a total of4 sheets. by a copy of each prior art document cited in this	s report.
Basis of the report With regard to the language, t language in which it was filed,	he international search was carried out on the ba unless otherwise indicated under this item.	sis of the international application in the
the international search Authority (Rule 23.1(b)	h was carried out on the basis of a translation of t	the international application furnished to this
b. With regard to any nucleotide was carried out on the basis of contained in the interna	and/or amino acid sequence disclosed in the in	
	to this Authority in written form.	
furnished subsequently	to this Authority in computer readble form.	
	subsequently furnished written sequence listing on as filed has been furnished.	does not go beyond the disclosure in the
the statement that the furnished	information recorded in computer readable form i	s identical to the written sequence listing has been
2. X Certain claims were f 3. Unity of invention is i	ound unsearchable (See Box I). acking (see Box II).	
4. With regard to the title ,		
X the text is approved as	submitted by the applicant.	
the text has been estat	olished by this Authority to read as follows:	
5. With regard to the abstract,		
the text has been estab	submitted by the applicant. blished, according to Rule 38.2(b), by this Authori the date of mailing of this international search rep	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be p	ublished with the abstract is Figure No.	
as suggested by the ap	pplicant.	None of the figures.
because the applicant	failed to suggest a figure.	<u>—</u>
because this figure bet	ter characterizes the invention.	

INTERNATIONAL SEARCH REPORT



MON DOCUMENTS CONSIDERED TO BE DELEVANT	
citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	nelevani to Ciaim No.
DE 36 11 791 A (MICHEL WOLFGANG; KOLLNY JAN) 22 October 1987 (1987-10-22) the whole document	1-10
US 3 814 057 A (CALVERT C ET AL) 4 June 1974 (1974-06-04) the whole document	1,6-11
GB 874 297 A (RUPPRECHT K) 2 August 1961 (1961-08-02) the whole document	1,10,11
WO 92 00258 A (SILCOCK BRUCE) 9 January 1992 (1992-01-09) page 4, line 7 - line 12 the whole document	6-9,12
EP 0 093 195 A (LEMONNIER MONIQUE NEE PERRIER) 9 November 1983 (1983-11-09)	
EP 0 073 173 A (LEMONNIER MONIQUE NEE PERRIER) 2 March 1983 (1983-03-02)	
EP 1 006 124 A (ENTOPHARM CO LTD) 7 June 2000 (2000-06-07) the whole document	1-5
	JAN) 22 October 1987 (1987-10-22) the whole document US 3 814 057 A (CALVERT C ET AL) 4 June 1974 (1974-06-04) the whole document GB 874 297 A (RUPPRECHT K) 2 August 1961 (1961-08-02) the whole document WO 92 00258 A (SILCOCK BRUCE) 9 January 1992 (1992-01-09) page 4, line 7 - line 12 the whole document EP 0 093 195 A (LEMONNIER MONIQUE NEE PERRIER) 9 November 1983 (1983-11-09) EP 0 073 173 A (LEMONNIER MONIQUE NEE PERRIER) 2 March 1983 (1983-03-02) EP 1 006 124 A (ENTOPHARM CO LTD) 7 June 2000 (2000-06-07)

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INTERNATIONAL SEARCH REPORT

Information patent fan

patent family members

PCT, Application No

	ent document in search report		Publication date	Patent family member(s)	Publication date
DE :	19543513	Α	12-06-1997	NONE	
DE 4	4211745	A	07-10-1993	NONE	
DE 4	4111782	Α	15-10-1992	NONE	
US 4	4405602	Α	20-09-1983	RO 74872 A DE 3134454 T EP 0043842 A GB 2079602 A,B WO 8102106 A	01-11-1983 15-07-1982 20-01-1982 27-01-1982 06-08-1981
DE 3	3611791	A	22-10-1987	NONE	
US (3814057	Α	04-06-1974	US 3716371 A	13-02-1973
GB 8	87 4 297	Α		NONE	
WO 9	9200258	A	09-01-1992	AU 8199191 A GB 2263905 A,B	23-01-1992 11-08-1993
EP (0093195	Α	09-11-1983	FR 2525438 A DE 3279764 D JP 58187150 A NO 823550 A	28-10-1983 20-07-1989 01-11-1983 27-10-1983
EP (0073173	Α	02-03-1983	FR 2511597 A DE 3280185 D JP 58088317 A	25-02-1983 05-07-1990 26-05-1983
EP :	1006124	Α	07-06-2000	NONE	

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 14 December 2000 (14.12.2000)

English

(10) International Publication Number WO 00/74693 A3

- (51) International Patent Classification7: A61K 35/64. A23K 1/10, 1/14, 1/18, A23L 1/29, C02F 3/00, C05F 15/00, A01N 63/00, A61P 37/00
- (21) International Application Number: PCT/GB00/02238
- (22) International Filing Date: 8 June 2000 (08.06.2000)
- (25) Filing Language:

(26) Publication Language: English

(30) Priority Data: 9913267.2

9 June 1999 (09.06.1999) GB

(71) Applicant and

- (72) Inventor: LEONARD, Christopher, Jeremy [GB/GB]; 71 Shorton Valley Road, Paignton, Devon TQ3 1RE (GB).
- (74) Agent: BROWN, Michael, Stanley; Alpha & Omega, Chine Croft, East Hill, Ottery St. Mary, Devon EX11 1PJ (GB).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- (88) Date of publication of the international search report: 28 June 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: IMMUNITY GENERATION

(57) Abstract: Immunity generation is effected by a method which includes the use of insect tissues and/or larval forms and derivatives of insects. The invention also provides a method of producing a food source which includes the use of insects and their larvae which act as carriers providing immunity generation as well as protein, energy and biologically active beneficial compounds.

INTERNATIONAL STRCH REPORT

onal Application No PCT/GB 00/02238

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K35/64 A23K1/10

CO2F3/00

C05F15/00

A23K1/14 A01N63/00

A23K1/18 A61P37/00 A23L1/29

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

	DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	DE 195 43 513 A (CLEMENS ANDREAS ;SCHIRRMACHER MARTIN (DE)) 12 June 1997 (1997-06-12) the whole document	1-5			
X	DE 42 11 745 A (BOERNER GMBH) 7 October 1993 (1993-10-07) the whole document	1-5			
X	DE 41 11 782 A (BAYER GERHARD) 15 October 1992 (1992-10-15) the whole document	1-5			
x	US 4 405 602 A (ILIES NICOLAE) 20 September 1983 (1983-09-20) the whole document	1-5			
	-/				

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filling date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document reterring to an oral disclosure, use, exhibition or other means P' document published prior to the international filling date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 15 January 2001	Date of mailing of the international search report $19/01/2001$
Name and maiking address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax (+31-70) 340-3016	Authorized officer Teyssier, B

1



Inter Juan Application No PCT/GB 00/02238

		PC1/GB 00/02238		
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No		
X	DE 36 11 791 A (MICHEL WOLFGANG;KOLLNY JAN) 22 October 1987 (1987-10-22) the whole document	1-10		
X	US 3 814 057 A (CALVERT C ET AL) 4 June 1974 (1974-06-04) the whole document			
X	GB 874 297 A (RUPPRECHT K) 2 August 1961 (1961-08-02) the whole document			
X	WO 92 00258 A (SILCOCK BRUCE) 9 January 1992 (1992-01-09) page 4, line 7 - line 12 the whole document	6-9,12		
A	EP 0 093 195 A (LEMONNIER MONIQUE NEE PERRIER) 9 November 1983 (1983-11-09)			
A	EP 0 073 173 A (LEMONNIER MONIQUE NEE PERRIER) 2 March 1983 (1983-03-02)			
Ρ,Χ	EP 1 006 124 A (ENTOPHARM CO LTD) 7 June 2000 (2000-06-07) the whole document	1-5		

1

INTERNATIONAL S RCH REPORT

...formation on patent family members

Inter Print Application No PCT/GB 00/02238

	atent document d in search repor	t	Publication date	Patent family Publication member(s) date
DE	19543513	Α	12-06-1997	NONE
DE	4211745	Α	07-10-1993	NONE
DE	4111782	Α	15-10-1992	NONE
US	4405602	А	20-09-1983	RO 74872 A 01-11-1983 DE 3134454 T 15-07-1982 EP 0043842 A 20-01-1982 GB 2079602 A,B 27-01-1982 WO 8102106 A 06-08-1981
DE	3611791	Α	22-10-1987	NONE
US	3814057	Α	04-06-1974	US 3716371 A 13-02-1973
GB	874297	A		NONE
WO	9200258	A	09-01-1992	AU 8199191 A 23-01-1992 GB 2263905 A,B 11-08-1993
EP	0093195	A	09-11-1983	FR 2525438 A 28-10-1983 DE 3279764 D 20-07-1989 JP 58187150 A 01-11-1983 NO 823550 A 27-10-1983
EP	0073173	A	02-03-1983	FR 2511597 A 25-02-1983 DE 3280185 D 05-07-1990 JP 58088317 A 26-05-1983
ΕP	1006124	Α	07-06-2000	NONE

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 14 December 2000 (14.12.2000)

PCT

(10) International Publication Number WO 00/74693 A2

- (51) International Patent Classification7: A61K 35/64. A23K 1/10, 1/14, 1/18, A23L 1/29, C02F 3/00, C05F 15/00, A01N 63/00, A61P 37/00
- (21) International Application Number: PCT/GB00/02238
- (22) International Filing Date: 8 June 2000 (08.06.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 9913267.2 9 June 1999 (09.06.1999)
- (71) Applicant and
- (72) Inventor: LEONARD, Christopher, Jeremy [GB/GB]; 71 Shorton Valley Road, Paignton, Devon TQ3 1RE (GB).
- (74) Agent: BROWN, Michael, Stanley; Alpha & Omega, Chine Croft, East Hill, Ottery St. Mary, Devon EX11 1PJ (GB).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

GB

 Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

00/74693 A2

(54) Title: IMMUNITY GENERATION

(57) Abstract: Immunity generation is effected by a method which includes the use of insect tissues and/or larval forms and derivatives of insects. The invention also provides a method of producing a food source which includes the use of insects and their larvae which act as carriers providing immunity generation as well as protein, energy and biologically active beneficial compounds.

REC'D 1 1 SEP 2001

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			FOR FURTHER ACTION		ation of Transmittal of International y Examination Report (Form PCT/IPEA/416)		
International application No.			International filing date (day/mon	th/year)	Priority date (day/month/year)		
			08/06/2000	, ,	09/06/1999		
PCT/GB00/02238 08/06/2000 09/06/1999 International Patent Classification (IPC) or national classification and IPC A61K35/64							
Applicant							
LEONAR	D, C	hristopher Jeremy					
1. This ir and is	the bear area by this International Proliminary Evamining Authority						
2. This F	REPO	RT consists of a total of	7 sheets, including this cover	sheet.			
be (s							
3. This re	eport	contains indications rela	ating to the following items:				
1	\boxtimes	Basis of the report					
II	_	Priority					
	ΣI		ppinion with regard to novelty, it	nventive step	and industrial applicability		
IV		Lack of unity of invention		a marrathy imir	entine aton or industrial applicability		
V	×		nger Article 35(2) with regard to ons suporting such statement	o noveity, inv	entive step or industrial applicability;		
VI	\boxtimes	Certain documents cite	ed				
VII		Certain defects in the in	nternational application				
VIII		Certain observations of	n the international application				
Date of submission of the demand Date of completion of this report					f this report		
03/01/2001 07.09.2001							
		address of the international	al Autho	rized officer	SEPTEMBLES MILVEL		
preliminary	Euro D-80	ining authority: opean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 523656		Antoli, B	Same and the same		
	Fax:	+49 89 2399 - 4465	Telepl	none No. +49 8	9 2399 8476		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02238

I. Basis of the report

1.	the an	receiving Office in	nents of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" of this report since they do not contain amendments (Rules 70.16 and 70.17)):						
	1-1	8	as originally filed						
	Cla	aims, No.:							
	1-1	0	as originally filed						
2.	lan	guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.						
	_								
			ranslation furnished for the purposes of the international search (under Rule 23.1(b)).						
		and the state of the state international application (under trule 40.0(b)).							
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
3.	Wit	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the int	ernational application in written form.						
		filed together with t	he international application in computer readable form.						
		furnished subseque	ently to this Authority in written form.						
		furnished subseque	ently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.						
4.	The	amendments have	resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):								

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02238

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

		, ,				
6.	. Ad	ditional observations, if r	iecessa	ry:		
Ш	. No	n-establishment of opi	nion wi	th regard	d to novelty, inventive step and industrial applicability	
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
		the entire international	applicat	tion.		
	\boxtimes	claims Nos. 6-8.				
be	ecau	se:				
		the said international a not require an internation			e said claims Nos. relate to the following subject matter which does examination (<i>specify</i>):	
	⊠	the description, claims unclear that no meanin- see separate sheet			dicate particular elements below) or said claims Nos. 6-8 are so ld be formed (specify):	
		the claims, or said claim could be formed.	ns Nos.	are so ir	inadequately supported by the description that no meaningful opinion	
		no international search	report h	nas been	established for the said claims Nos	
2.	and	eaningful international p /or amino acid sequence ructions:	relimina listing	ary exami to comply	ination cannot be carried out due to the failure of the nucleotide ly with the standard provided for in Annex C of the Administrative	
		the written form has not	been fu	urnished (or does not comply with the standard.	
		the computer readable	form ha	s not bee	en furnished or does not comply with the standard.	
V.	Rea cita	soned statement unde tions and explanations	r Article suppo	e 35(2) w rting suc	with regard to novelty, inventive step or industrial applicability; ch statement	
1.	Stat	ement				
	Nov	elty (N)	Yes: No:	Claims Claims		
	Inve	ntive step (IS)	Yes: No:	Claims Claims		
	Indu	strial applicability (IA)	Yes:	Claims	1-5, 9-10	



International application No. PCT/GB00/02238

No: Claims

2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1. Independent claim 6 and its dependent claims 7-8 do not meet the requirements of Art. 6 PCT because their subject matter is not supported by the technical contents of the description.
- 1.1 Although not shown in the present application, there is evidence from the prior art (see D1 to D7 below) that insects and products thereof can be used as food sources and medicaments.
- 1.2 However, neither in the prior art nor in the present application, is there technical evidence supporting the effect alleged in the present claims 6-8; i.e. that biological waste (including sewage and animal offal) recycled using insects could be safely used as an immune-generating food or medicament.
- 2. In view of the aforementioned objection, no opinion can be established with regard to novelty, inventive step and industrial applicability of claims 6-8.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

3. Reference is made to the following documents:

D1: DE-A-195 43 513

D2: DE-A-42 11 745

D3: DE-A-41 11 782

D4: US-A-4 405 602

D5: DE-A-36 11 791

D6: US-A-3 814 057

D7: GB-A-874 297

4. Claims 1-3 and 9-10 do not meet te requirements of Art. 33(2) PCT because their

INTERNATIONAL PRELIMINARY EXAMINATION REPORT - SEPAR

EXAMINATION REPORT - SEPARATE SHEET

subject matter is not new (see below).

- 4.1 D1 (c. 1, I. 20-27) discloses a medicament obtained from mosquito saliva for treating HIV.
 - Thus, D1 destroys the novelty of the subject matter of the present claims 2 and 3 [Note that except for the "first medical use", a product is only defined by its components and not its intended use].
- 4.2 D2 (claims 1-2 and c. 1, I. 34) discloses the use of propolis (a natural product obtained from bees) as a medicament for inhibiting the release of inflammatory mediators such as allergens. This, implies the possible use of propolis to treat allergies.
 - Thus, D2 destroys the novelty of the subject matter of the present claims 1-3.
- 4.3 D3 (claim 1) discloses bee's resin dissolved in ethanol for use as oral immunostimulating agent (i.e. as a medicament).
 - Thus, D3 also prejudices the novelty of the subject matter of the present claims 1-3.
- 4.4 D4 (see claims 1, 7 and c. 3, l. 24) discloses a product prepared from bee larvae and its use in human nourishment and as poultry food.
 - Thus, D4 destroys the novelty of the subject matter of the present claims 9 and 10.
- 4.5 D5 (see claims 1-7 and c. 2, I. 24-29 and 31-34) discloses the use of insects, in particular fly-larvae, to prepare animal food, including poultry food, and the ability of said larvae to stimulate the immune system of animals.
 - Thus, D5 explicitly destroys the novelty of the subject matter of claims 9-10 and implicitly destroys the novelty of the subject matter of the present claims 1-3 (i.e the use of said larvae as immunostimulating agent/medicament).

- 4.6 D6 (see c. 2, I. 21-29) discloses a product made from fly pupae and its use for feeding chicks and hens.
 - Thus, D6 prejudices the novelty of the subject matter of the present claims 9 and 10.
- 4.7 D7 (see claim 1) discloses a product comprising dried insects and its use to feed birds.
 - D7 is therefore prejudicial to the novelty of the subject matter of the present claim 9.
- 5. Claims 4 and 5 meet the requirements of Art. 33(2) PCT because their subject matter is formally new over the prior art cited in the search report.
- 6. Claims 4-5 do however not meet the requirements of Art. 33(3) PCT, because the formulation of any of the medicinal products disclosed in D1-D3 or D5 in a form suitable for injection or transcutaneous administration merely represent two of the several straightforward ways of administration from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill.
- 7. Claims 1-5 and 9-10 satisfy the criterion set forth in Art. 33(4) PCT because their subject matter is susceptible of industrial application.

Re Item VI

Certain documents cited

8. EP-A-1 006 124 (filing date: 02.12.98; publication date: 06.07.00).

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PATENT COOPERATION TREATY

REC'D 11 SEP 2001

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

International application No. PCT/GB00/02238 08/06/2000 08/06/2000 Priority date (day/month/year) 09/06/1999 09/06/1999 09/06/1999 Priority date (day/month/year) 10/06/06/1999 Priority date (day/month/ye	Applicant's or agent's file reference			FOR FURTHER A	CTION	See Notifica	ation of Transmittal of I	International Form PCT/IPEA/416)		
PCT/GB00/02238 08/06/2000 09/06/1999 RECEVED RECEVED A61K35/64 MAR 1 3 2003 Applicant LEONARD, Christopher Jeremy 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 7 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items: 1. Basis of the report 11. Priority 12. Basis of the report 13. This report contains indications relating to the following items: 14. Basis of the report 15. Basis of the report 16. Priority 17. Lack of unity of invention 18. Certain documents cited 19. Certain detects in the international application 29. Certain detects in the international application 20. Date of submission of the demand 20. Date of submission of the d	Internation	nal app	dication No.	International filing date	/dav/month					
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2. This REPORT consists of a total of 7 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items: Basis of the report	1. This	intern	ational preliminary exami	nation report has been	prepared	by this Inte	rnational Preliminar	y Examining Authority		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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International application No. PCT/GB00/02238

1	i. B	asis of the report							
•	a	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:							
	1-	-18	as originally filed						
	C	laims, No.:							
	1-	10	as originally filed						
2	. Wi lar	ith regard to the lan g nguage in which the i	guage, all the elements marked above were available or fumished to this Authority i international application was filed, unless otherwise indicated under this item.	n the					
			available or furnished to this Authority in the following language: , which is:						
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).							
		the language of publication of the international application (under Rule 48.3(b)).							
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
3.	Wit	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the int	ernational application in written form.						
		· ·							
			ently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.							
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequenished.	nce					
4.	The	amendments have r	resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
	_		V · · · · · · · · · · · · · · · · · · ·						
ò.		This report has been considered to go be	n established as if (some of) the amendments had not been made, since they have yond the disclosure as filed (Rule 70.2(c)):	been					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02238

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

(6. A	dditional observations, if	necess	ary:							
	II NI	on-establishment of en	inian	dale							
•	··· ·	on-establishment of op	inion w	ntn regar	a to novell	y, inve	entive st	ep and ind	ustrial app	plicability	
	. The questions whether the claimed invention obvious), or to be industrially applicable has				on appears on the not been	to be n exam	iovel, to i ined in re	involve an i	nventive st	tep (to be non-	
		the entire internationa	l applica	ation.							
	Ø	claims Nos. 6-8.									
b	ecau	ıse:									
		the said international a not require an internat	applicati ional pr	on, or the eliminary	said claim: examinatio	s Nos. n (<i>spe</i>	relate to	the followi	ng subject	matter which does	
the description, claims or drawings (indicate particular elements below) or sai unclear that no meaningful opinion could be formed (specify): see separate sheet						id claims N	los. 6-8 are so				
		the claims, or said clair could be formed.	ms Nos	. are so i	nadequatel	y supp	orted by	the descrip	tion that no	o meaningful opinio	n
		no international search	(report	has been	established	for th	e said cla	aims Nos			
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		the written form has no	t boon f	urnichad	or doos met				:		
		and written form has not been furnished of does not comply with the standard.									
		\square the computer readable form has not been furnished or does not comply with the standard.								d.	
٧.	Rea	soned statement unde tions and explanations	r Articl	e 35(2) w	ith regard	to nov	elty, inv	entive step	or indust	trial applicability;	
		ement	suppo	rung sud	n stateme	nt					
••	Otal	ement								!	
	Nov	elty (N)	Yes: No:	Claims Claims	4-5 1-3, 9-10				i 1		
	Inve	ntive step (IS)	Yes: No:	Claims Claims	4-5	\			٠		
	Indu	strial applicability (IA)	Yes:	Claims	1-5, 9-10				1		

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB00/02238

No: Claims

2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- Independent claim 6 and its dependent claims 7-8 do not meet the requirements of Art. 6 PCT because their subject matter is not supported by the technical contents of the description.
- 1.1 Although not shown in the present application, there is evidence from the prior art (see D1 to D7 below) that insects and products thereof can be used as food sources and medicaments.
- 1.2 However, neither in the prior art nor in the present application, is there technical evidence supporting the effect alleged in the present claims 6-8; i.e. that biological waste (including sewage and animal offal) recycled using insects could be safely used as an immune-generating food or medicament.
- In view of the aforementioned objection, no opinion can be established with regard to novelty, inventive step and industrial applicability of claims 6-8.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

3. Reference is made to the following documents:

D1: DE-A-195 43 513

D2: DE-A-42 11 745

D3: DE-A-41 11 782

D4: US-A-4 405 602

D5: DE-A-36 11 791

D6: US-A-3 814 057

D7: GB-A-874 297

Claims 1-3 and 9-10 do not meet te requirements of Art. 33(2) PCT because their

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subject matter is not new (see below).

- 4.1 D1 (c. 1, I. 20-27) discloses a medicament obtained from mosquito saliva for treating HIV.
 - Thus, D1 destroys the novelty of the subject matter of the present claims 2 and 3 [Note that except for the "first medical use", a product is only defined by its components and not its intended use].
- 4.2 D2 (claims 1-2 and c. 1, l. 34) discloses the use of propolis (a natural product obtained from bees) as a medicament for inhibiting the release of inflammatory mediators such as allergens. This, implies the possible use of propolis to treat allergies.
 - Thus, D2 destroys the novelty of the subject matter of the present claims 1-3.
- 4.3 D3 (claim 1) discloses bee's resin dissolved in ethanol for use as oral immunostimulating agent (i.e. as a medicament).
 - Thus, D3 also prejudices the novelty of the subject matter of the present claims 1-
- 4.4 D4 (see claims 1, 7 and c. 3, l. 24) discloses a product prepared from bee larvae and its use in human nourishment and as poultry food.
 - Thus, D4 destroys the novelty of the subject matter of the present claims 9 and 10.
- 4.5 D5 (see claims 1-7 and c. 2, I. 24-29 and 31-34) discloses the use of insects, in particular fly-larvae, to prepare animal food, including poultry food, and the ability of said larvae to stimulate the immune system of animals.
 - Thus, D5 explicitly destroys the novelty of the subject matter of claims 9-10 and implicitly destroys the novelty of the subject matter of the present claims 1-3 (i.e the use of said larvae as immunostimulating agent/medicament).

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- 4.6 D6 (see c. 2, I. 21-29) discloses a product made from fly pupae and its use for feeding chicks and hens.
 - Thus, D6 prejudices the novelty of the subject matter of the present claims 9 and 10.
- 4.7 D7 (see claim 1) discloses a product comprising dried insects and its use to feed birds
 - D7 is therefore prejudicial to the novelty of the subject matter of the present claim 9.
- 5. Claims 4 and 5 meet the requirements of Art. 33(2) PCT because their subject matter is formally new over the prior art cited in the search report.
- 6. Claims 4-5 do however not meet the requirements of Art. 33(3) PCT, because the formulation of any of the medicinal products disclosed in D1-D3 or D5 in a form suitable for injection or transcutaneous administration merely represent two of the several straightforward ways of administration from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill.
- 7. Claims 1-5 and 9-10 satisfy the criterion set forth in Art. 33(4) PCT because their subject matter is susceptible of industrial application.

Re Item VI

Certain documents cited

8. EP-A-1 006 124 (filing date: 02.12.98; publication date: 06.07.00).